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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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David Brian Wecker

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EXAMINER

VANCHY JR, MICHAEL J

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/725,604	Applicant(s) WECKER ET AL.	
	Examiner MICHAEL VANCHY JR	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-23 and 27-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-23 and 27-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 3-23, and 27-32 have been considered but are moot in view of the new ground(s) of rejection.
2. The 35 USC 101 rejection made in the previous Office Action has been withdrawn due to Applicant's amendments.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. **Claims 1 and 3-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gounares et al., US 2003/0215142 A1 and further in view of Arai et al., US 6,421,461 B1.**

Regarding claim 1, Gounares teaches a method, comprising: receiving electronic ink input; converting the electronic ink input to one or more machine-generated objects; and rendering the one or more machine-generated objects using a determined size for the machine-generated object or objects and an original inter-word spacing of the electronic ink input (Figs. 5 and 6, [0037], The examiner takes into account that “printed text” corresponds to “machine-generated objects, and that the size and inter-word spacing is substantially equal to the original size of the electronic ink input as seen in Figures 5 and 6.). However, Gounares does not teach calculating a maximum height of corresponding electronic ink input and setting the size of the one or more machine-generated objects to be equivalent in scale for the calculated maximum height. Arai teaches determining the size of and entry of handwritten data (such as the maximum height), and then outputting a candidate character of relative size (Figs. 25 and 29, col. 10, lines 12-23). The Examiner takes into account that as in the Applicant’s specification which discloses, for example, that “the average height (or other size characteristics) of the various ink characters may be determined...,” and thus since an average height is determined (normalization) it includes a step of determining a maximum height. As in Arai since the maximum height is also used in an equation to determine the output, it would be obvious to one of ordinary skill in the art at the time of the invention to use the maximum height of the input for the height of the output. It would be clear to one of ordinary skill in the art to modify Gounares to include outputting characters based upon the maximum height input so that certain handwritten characters are displayed with emphasis.

Regarding claim 3, Arai teaches wherein the size of the one or more machine-generated objects is determined by calculating an average height of at least a portion of the electronic ink input (Figs. 25 and 29, col. 10, lines 12-23).

Regarding claim 4, Gounares teaches a method according to claim 1, further comprising: receiving input selecting at least one object from the rendered machine-generated object or objects; and displaying the electronic ink input corresponding to the selected machine-generated object or objects in place of the selected at least one object (Fig. 5 and [0037]).

Regarding claim 5, Gounares teaches a method according to claim 4, wherein the displayed electronic ink input temporarily replaces the rendered machine-generated object or objects ([0037] and [0041], The examiner takes into account that since the InkEdit control can display either the original ink or the recognized text or both, that it is clear that the electronic ink input can temporarily replace the rendered machine-generated text.).

Regarding claim 6, Gounares teaches a method according to claim 1, wherein the one or more rendered machine-generated objects are arranged so as to correspond to an original arrangement of the electronic ink input (Figs. 5 and 6, [0037]).

Regarding claim 7, Gounares teaches a method according to claim 1, wherein the electronic ink input includes electronic ink text input, the one or more machine-generated objects includes machine-generated text, and the size of at least some of the machine-generated objects constitutes a font size of the machine-generated text (Figs. 5 and 6, [0037]).

Regarding claim 8, Gounares teaches a method according to claim 7, further comprising: determining the original size of the electronic ink text input on a word-by-word basis: wherein at least two words are separated by said original inter-word spacing (Fig. 3, and [0040], The examiner takes into account that since size can be determined by the InkEdit control, and since some ink can be selected by creating a box, it is clear that each word can be selected and the size of that word be determined while keeping the original inter-word spacing.). Arai teaches determining the size of and entry of handwritten data (such as the maximum height), and then outputting a candidate character of relative size (Figs. 25 and 29, col. 10, lines 12-23).

Regarding claim 9, Gounares teaches a method according to claim 8, wherein the machine-generated text is rendered, on the word-by-word basis, at a font size based on the determined original size of the electronic ink text input (Figs 3-6, [0039-0040]). Arai teaches determining the size of and entry of handwritten data (such as the maximum height), and then outputting a candidate character of relative size (Figs. 25 and 29, col. 10, lines 12-23).

Regarding claim 10, Gounares teaches a method according to claim 7, further comprising: determining the original size of the electronic ink text input as an average size of a line of the electronic ink text input ([0029], "The color and/or font size of the textual ink, as well as whether the textual ink should be underlined, bold, italic, and/or the like may be set programmatically and **may be based on the attributes of the text around the tink object.**"), on a line-by-line basis, wherein at least one line includes at least two words separated by said original inter-word spacing (Fig. 3, and [0040], The examiner takes into account that since size can be determined by the InkEdit control, and since some ink can be selected by creating a box, including an entire line, it is clear that each word can be selected and the size of that word be determined while keeping the original inter-word spacing.). Arai teaches determining the size of and entry of handwritten data (such as the maximum or average height), and then outputting a candidate character of relative size (Figs. 25 and 29, col. 10, lines 12-23).

Regarding claim 11, Gounares teaches a method according to claim 10, wherein the machine-generated text is rendered, on the line-by-line basis (Fig. 3, and [0040], The examiner takes into account that since size can be determined by the InkEdit control, and since some ink can be selected by creating a box, including an entire line, it is clear that each word can be selected and the size of that word be determined while keeping the original inter-word spacing.), at a font size based on the average size of the electronic ink text input line ([0029], "The color and/or font size of the textual ink, as well as whether the textual ink should be underlined, bold, italic, and/or the like may be set programmatically and **may be based on the attributes of the text around the tink object.**"). Arai teaches determining the size of and entry of handwritten data (such as the maximum or average height), and then outputting a candidate character of relative size (Figs. 25 and 29, col. 10, lines 12-23).

Regarding claim 12, Gounares teaches a method according to claim 7, further comprising: receiving input selecting one or more words from the rendered machine-generated text; and displaying the electronic ink text input corresponding to the selected machine-generated text (Fig. 3, [0006], [0037] [0040], The examiner takes into account

that since some ink can be selected by creating a box and that the ink can be saved, it is clear that the saved ink can be recalled and replace the machine-generated text.).

Regarding claim 13, Gounares teaches a method according to claim 12, further comprising: displaying machine-generated text alternatives corresponding to the selected one or more words ([0045]).

Regarding claim 14, Gounares teaches a method according to claim 13, further comprising: receiving input selecting a displayed machine-generated text alternative; and replacing the selected rendered machine-generated text with the selected displayed machine-generated text alternative ([0045]).

Regarding claim 15, see rejection made to claim 1, for it addresses the method of this system.

Regarding claim 16, see rejection made to claim 7, for it addresses the method of this system.

Regarding claim 17, see rejection made to claim 13, for it addresses the method of this system.

Regarding claim 18, see rejection made to claim 14, for it addresses the method of this system.

Regarding claim 19, see rejection made to claim 1, for it addresses the method of this computer-readable medium.

Regarding claim 20, see rejection made to claim 7, for it addresses the method of this computer-readable medium.

Regarding claim 21, Gounares teaches a method of claim 1, wherein said step of rendering comprises: rendering the one or more machine-generated objects such that a word positioning of the rendered machine-generated object or objects substantially corresponds to an original word positioning of the electronic ink input ([0037]).

Regarding claim 22, see rejection made to claim 21, for it addresses the method of this system.

Regarding claim 23, see rejection made to claim 21, for it addresses the method of this computer-readable medium.

4. Claims 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gounares et al., US 2003/0215142 A1, and further in view of Wakeam et al., US 2005/0041834 A1.

Regarding claims 27-29, Gounares teaches the ability to interpret a drawing or any other non-textual context that is written with the electronic ink ([0029]), and thus can keep positioning and spacing the same or as desired by the user ([0040]). However, Gounares does not explicitly state that the input is a table with rows and columns. Wakeam teaches using electronic ink to input a table with rows and columns (Fig. 15A and [0111]). Therefore, it would be clear to one of ordinary skill in the art at the time of the invention to modify Gounares to include tables with rows and columns as “non-textual content,” for further accurately editing and manipulating the electronic ink.

5. Claims 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gounares et al., US 2003/0215142 A1, and further in view of Geidl et al., US 2003/0053084 A1.

Regarding claim 30, Gounares teaches inter-word spacing and character recognition, to turn electronic ink into text, however, Gounares is silent on using normalization. Geidl teaches normalizing said inter-word spacing in response to a user-generated normalization command (Figs. 3 and 8, [0044] and [0059], The examiner takes into account that since the normalization data is saved, so that the normalization can be undone, it is clear that the user can control the normalization.). It would be clear to one of ordinary skill in the art at the time of the invention to modify Gounares to include “normalization,” so that a more typical word processing format is created, for easier reading and understanding.

Regarding claim 31, see rejection made to claim 30, for it addresses the method of this system.

Regarding claim 32, see rejection made to claim 30, for it addresses the method of this computer-readable medium.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL VANCHY JR whose telephone number is (571)270-1193. The examiner can normally be reached on Monday - Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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